

January 14, 2016

Mr. Scott Manzano  
Oregon Department of Environmental Quality  
700 NE Multnomah St., Suite 600  
Portland, Oregon 97204

**RE: RESPONSE TO DECEMBER 21, 2015 LETTER  
RESPONSE TO DEQ COMMENTS ON OUTFALL 22B IRAM PERFORMANCE MONITORING  
SECOND QUARTER 2015 REPORT RP-PORTLAND SITE ECSI #155  
SUBMITTED BY EMAIL**

Dear Mr. Manzano:

On behalf of StarLink Logistics, Inc. (StarLink), this letter transmits Estimated Maximum Potential Concentration (EMPC) results for the Outfall 22B IRAM Performance Monitoring Second Quarter 2015 sampling and groundwater monitoring EMPC results.

Please note the following:

- For the Outfall 22B 2<sup>nd</sup> Quarter 2015 sample results, the EMPC results provided in the attached table were reported in Table 6 of the report but were not specifically identified as “EMPC” results. We will continue to report and clearly identify “EMPC” results in future reports.
- We are providing dioxin/furan groundwater EMPC results in the attached “Groundwater EMPC Results” table. These data were not reported in the Appendix C tables in the RI/SCE report<sup>1</sup> which was consistent with the approved work plan and QAPP relevant at the time.

If you have any questions, please contact Joan Underwood at (503) 278-1837 or Kent Angelos at (425) 883-0777.

Sincerely,

**GOLDER ASSOCIATES INC.**



Kent M. Angelos  
Principal and Senior Program Leader

cc: S. Dearden, Sanofi US  
J. Underwood, QMG  
J. Benedict, Cable Huston  
E. DeMaria, EPA

Enclosed: Outfall 22B 2nd Quarter 2015 IRAM Performance Monitoring - Summary of EMPC  
Results  
Groundwater EMPC Results

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<sup>1</sup> AMEC, 2010. RI/SCE Report – RP-Portland Site – Portland, Oregon. Prepared by AMEC Earth and Environmental, Inc. submitted to Oregon Department of Environmental Quality, November 19, 2010.



## Outfall 22B 2nd Quarter 2015 IRAM Performance Monitoring - Summary of EMPC Results

Constituent	Outfall 22B Samples		Field Blank	Manhole Samples						
	Outfall 22B 22B-U-S-060815 6/8/2015	Outfall 22B Duplicate 22B-U-D-060815 6/8/2015	Rinsate Blank 22B-U-RB-060915 6/9/2015	MH-3 22B-U-MH3-060815 6/8/2015	MH-4 22B-U-MH4-060915 6/9/2015	MH-6 22B-U-MH6-060915 6/9/2015	MH-7 22B-U-MH7-060915 6/9/2015	MH-8 22B-U-MH8-061015 6/10/2015	MH-10 22B-U-MH10-061015 6/10/2015	METRO-MH-9 Metro-U-MH9- 061015
Dioxins & Furans, Method 1613, pg/L										
1,2,3,4,6,7,8-HpCDD	2.09 EMPC, U	1.25 EMPC, U	---	2.24 EMPC, U	---	---	---	---	---	1.97 EMPC, U
2,3,7,8-TCDD	---	---	---	1.72 EMPC, U	---	3.63 EMPC, U	---	---	---	---
OCDF	---	---	---	---	---	---	---	3.31 EMPC, U	---	---
Chlorinated Biphenyl Congeners, Method 1668, pg/L										
PCB 119	---	---	---	1.12 EMPC, U	---	---	---	---	---	---
PCB 123	---	---	---	---	---	---	1.68 EMPC, U	---	---	---
PCB 124	---	---	---	---	---	---	---	3.45 EMPC, U	---	---
PCB 126	---	---	---	0.799 EMPC, U	---	---	---	---	---	---
PCB 136	---	12.8 EMPC, U	---	---	---	---	---	---	---	---
PCB 144	3.39 EMPC, U	4.22 EMPC, U	---	---	---	4.97 EMPC, U	2.58 EMPC, U	---	---	---
PCB 147	---	2.52 EMPC, U	---	---	---	---	2.57 EMPC, U	3.66 EMPC, U	2.02 EMPC, U	---
PCB 151	---	---	---	---	---	---	17.2 EMPC, U	---	---	---
PCB 156	---	---	---	---	---	---	5.98 EMPC, U	---	---	---
PCB 171	---	---	---	---	---	4.82 EMPC, U	---	---	---	---
PCB 172	---	---	---	---	---	---	2.44 EMPC, U	---	---	---
PCB 177	---	---	---	---	---	9.42 EMPC, U	---	---	---	---
PCB 189	---	---	---	---	---	---	---	---	1.12 EMPC, U	---
PCB 19	---	---	---	---	---	9.74 EMPC, U	---	---	---	---
PCB 190	---	---	---	---	---	2.9 EMPC, U	---	---	---	---
PCB 191	---	---	---	---	---	---	---	1.61 EMPC, U	1.15 EMPC, U	---
PCB 193	1.95 EMPC, U	---	---	---	---	---	---	---	3.27 EMPC, U	---
PCB 194	---	---	---	---	---	9.34 EMPC, U	---	---	---	---
PCB 200	---	---	---	---	---	---	---	2.9 EMPC, U	---	---
PCB 201	2.07 EMPC, U	---	---	---	---	---	---	---	---	---
PCB 202	---	---	---	5.21 EMPC, U	---	---	---	---	---	---
PCB 207	---	0.948 EMPC, U	---	---	---	---	---	---	---	---
PCB 208	2.22 EMPC, U	---	---	3.1 EMPC, U	---	---	---	---	6.26 EMPC, U	---
PCB 209	---	---	---	---	---	6.52 EMPC, U	---	---	---	---
PCB 25	---	---	---	2.09 EMPC, U	---	4.61 EMPC, U	---	---	---	---
PCB 26	---	6.47 EMPC, U	---	---	---	---	---	---	---	---
PCB 38	---	---	2.92 EMPC, U	---	---	---	---	---	---	---
PCB 46	---	3.54 EMPC, U	---	---	---	---	---	---	---	---
PCB 55	---	---	---	---	---	---	---	---	---	0.678 EMPC, U
PCB 63	---	0.828 EMPC, U	---	0.696 EMPC, U	0.837 EMPC, U	---	---	---	---	---
PCB056 & 060	14.9 EMPC, U	---	0.744 EMPC, U	---	---	---	---	---	---	---
PCB061 & 070	---	---	0.895 EMPC, U	---	---	---	---	---	---	---
PCB111 & 115	1.2 EMPC, U	1.06 EMPC, U	---	---	---	---	---	---	1.43 EMPC, U	---
PCB133 & 142	---	1.78 EMPC, U	---	2.13 EMPC, U	---	---	---	---	---	---
PCB134 & 143	---	---	---	3.36 EMPC, U	---	---	---	---	---	---
Total Heptachlorobiphenyls	169 EMPC	---	---	---	---	155 EMPC	158 EMPC	281 EMPC	284 EMPC	---
Total Hexachlorobiphenyls	316 EMPC	329 EMPC	---	376 EMPC	---	359 EMPC	320 EMPC	467 EMPC	474 EMPC	---
Total Nonachlorobiphenyls	9.17 EMPC	14.6 EMPC	---	14.6 EMPC	---	---	---	---	30.5 EMPC	---
Total Octachlorobiphenyls	53.6 EMPC	---	---	119 EMPC	---	40.7 EMPC	---	108 EMPC	---	---
Total Pentachlorobiphenyls	581 EMPC	594 EMPC	---	580 EMPC	---	---	428 EMPC	478 EMPC	631 EMPC	---
Total Tetrachlorobiphenyls	453 EMPC	519 EMPC	224 EMPC	455 EMPC	525 EMPC	---	---	---	---	317 EMPC
Total Trichlorobiphenyls	---	267 EMPC	2.9 EMPC	212 EMPC	---	285 EMPC	---	---	---	---
Chlorinated Insecticides, Method 1699, pg/L										
4,4'-DDD	211 EMPC, U	---	---	---	---	---	---	---	---	---
4,4'-DDE	---	---	---	---	---	---	---	---	---	85.5 EMPC, U
alpha-Chlordane	86.6 EMPC, U	---	---	---	---	---	---	---	---	---
cis-Nonachlor	32.1 EMPC, U	---	---	---	---	---	---	---	---	---

**Outfall 22B 2nd Quarter 2015 IRAM Performance Monitoring - Summary of EMPC Results**

Constituent	Outfall 22B Samples		Field Blank	Manhole Samples						
	Outfall 22B 22B-U-S-060815 6/8/2015	Outfall 22B Duplicate 22B-U-D-060815 6/8/2015	Rinsate Blank 22B-U-RB-060915 6/9/2015	MH-3 22B-U-MH3-060815 6/8/2015	MH-4 22B-U-MH4-060915 6/9/2015	MH-6 22B-U-MH6-060915 6/9/2015	MH-7 22B-U-MH7-060915 6/9/2015	MH-8 22B-U-MH8-061015 6/10/2015	MH-10 22B-U-MH10-061015 6/10/2015	METRO-MH-9 Metro-U-MH9- 061015
delta-BHC	---	---	---	42.3 EMPC, U	---	---	---	---	---	---
Endosulfan I	139 EMPC, U	195 EMPC, U	140 EMPC, U	---	---	---	156 EMPC, U	176 EMPC, U	---	---
Endosulfan II	---	---	---	---	---	---	---	---	---	825 EMPC, U
Endrin	72.9 EMPC, U	---	---	---	---	---	---	---	248 EMPC, U	---
Endrin Aldehyde	559 EMPC, U	316 EMPC, U	---	130 EMPC, U	210 EMPC, U	---	192 EMPC, U	---	---	254 EMPC, U
Endrin Ketone	320 EMPC, U	277 EMPC, U	---	287 EMPC, U	160 EMPC, U	---	389 EMPC, U	790 EMPC, U	---	---
gamma-Chlordane	---	---	---	---	---	---	---	---	145 EMPC, U	---
Heptachlor Epoxide	---	---	---	61.9 EMPC, U	---	---	---	---	---	---
trans-Nonachlor	---	---	---	---	---	---	126 EMPC, U	---	---	---

**Notes:**

EMPC: Estimated Maximum Potential Concentration

EMPC, U: Estimated Maximum Potential Concentration, associated sample result reported by the laboratory as not detected.

---: EMPC results not reported

## Groundwater EMPC Results

Constituent	AL2-17 7/6/2001	AL2-17 4/22/2002	AL2-32 7/5/2001	AL2-32 4/19/2002	AL2-32 4/20/2004	AL2-46 7/5/2001	AL2-46 4/22/2002	AL2-46 4/21/2004
Dioxins & Furans, Method 8290, pg/L								
EMPC-HPCDD	---	---	---	---	---	---	---	---
EMPC-HPCDF	---	---	11.8 U	---	---	---	---	---
EMPC-HXCDD	---	---	24.9 U	---	12.7 N	---	---	---
EMPC-HXCDF	---	---	---	4.7 N	13.6 N	---	3.9 N	5.9 NJ
EMPC-PECDD	---	---	---	---	---	---	---	---
EMPC-PECDF	---	---	26.7 U	28.7 NJ	29.9 N	75 NJ	64.3 N	---
EMPC-TCDD	17 N	---	30.8 U	65.9 NJ	38.4 N	223 NJ	126 N	---
EMPC-TCDF	84.6 N	116 NJ	369 U	214 NJ	450 N	13020 N	6120 N	---

## Notes:

EMPC: Estimated Maximum Potential Concentration

N = presumptively identified result

NJ = presumptively identified and estimated result

U = not detected at or greater than the stated level

UJ = not detected at or greater than the stated level which is an approximate value

-- -: No EMPC result reported

## Groundwater EMPC Results

Constituent	AL5-19 10/5/2000	AL6-96 4/19/2004	MW-03-81 10/13/2000	MW-03-81 6/25/2001	MW-03-I(60) 10/13/2000	MW-03-S(27) 10/13/2000	MW-04-47 7/5/2001	MW-04-47 4/19/2002
Dioxins & Furans, Method 8290, pg/L								
EMPC-HPCDD	---	---	---	---	---	---	---	---
EMPC-HPCDF	---	---	---	---	---	---	---	20 N
EMPC-HXCDD	3.7 N	9000 N	4.9 N	2.3 N	14.7 N	24.5 N	---	---
EMPC-HXCDF	---	---	---	---	---	10.8 N	---	38.9 N
EMPC-PECDD	---	---	---	---	2.7 N	4.4 N	---	10.8 N
EMPC-PECDF	51.1 N	---	1.3 N	---	---	23.3 N	33.3 N	466 N
EMPC-TCDD	---	4600 U	---	---	1.4 N	---	21.7 N	342 N
EMPC-TCDF	144 N	---	17 N	---	---	40.1 N	180 N	1500 N

## Notes:

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UJ = not detected at or greater than the stated level which is an approximate value

-- -: No EMPC result reported

## Groundwater EMPC Results

Constituent	MW-05-52 7/6/2001	MW-05-52 4/22/2002	MW-05-52 4/22/2004	MW-05-70 7/6/2001	MW-05-70 4/22/2002	MW-05-70 4/22/2004	MW-09-23 7/2/2001	MW-09-23 4/17/2002
Dioxins & Furans, Method 8290, pg/L								
EMPC-HPCDD	---	---	---	---	---	1.7 N	---	---
EMPC-HPCDF	---	---	8.6 N	---	---	0.74 N	---	---
EMPC-HXCDD	12 U	---	2.3 N	---	---	---	3.3 N	---
EMPC-HXCDF	30.2 N	---	---	---	---	---	10.2 N	---
EMPC-PECDD	---	---	---	---	---	---	25.4 N	11 NJ
EMPC-PECDF	---	275 N	450 N	46 N	25.3 U	---	---	---
EMPC-TCDD	1140 N	1210 N	---	44.1 N	---	35.1 N	13.4 N	---
EMPC-TCDF	5140 U	1750 N	2360 N	235 N	211 N	119 N	5.6 N	---

## Notes:

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N = presumptively identified result

NJ = presumptively identified and estimated result

U = not detected at or greater than the stated level

UJ = not detected at or greater than the stated level which is an approximate value

-- -: No EMPC result reported

## Groundwater EMPC Results

Constituent	MW-09-42 7/2/2001	MW-09-42 4/17/2002	MW-09-58 9/26/2000	MW-09-58 7/2/2001	MW-09-58 4/18/2002	MW-09-80 10/5/2000	MW-09-80 7/2/2001	NDL-101-GW 12/3/2003
Dioxins & Furans, Method 8290, pg/L								
EMPC-HPCDD	---	---	---	7 N	---	---	---	---
EMPC-HPCDF	---	---	---	---	---	---	---	126 N
EMPC-HXCDD	1.5 N	---	---	---	2.8 N	---	3.7 N	72.9 N
EMPC-HXCDF	0.62 N	---	---	---	---	---	---	124 N
EMPC-PECDD	19.4 N	---	---	5.1 N	---	---	---	14.4 N
EMPC-PECDF	11.8 N	8.3 NJ	2.1 N	47 N	---	---	26.7 N	731 N
EMPC-TCDD	---	---	---	19 N	---	---	15.1 N	161 N
EMPC-TCDF	17.3 N	16.3 NJ	---	---	---	11.1 N	31.3 N	3550 N

## Notes:

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UJ = not detected at or greater than the stated level which is an approximate value

-- -: No EMPC result reported

## Groundwater EMPC Results

Constituent	NDL-103-GW 12/10/2003	NDL-104-GW 12/3/2003	NDL-105-GW 12/3/2003	NDL-106-GW 12/2/2003	NDL-107-GW 12/9/2003	NDP-101-GW 12/3/2003	RP-01-31 10/11/2000	RP-01-31 4/5/2002
Dioxins & Furans, Method 8290, pg/L								
EMPC-HPCDD	---	---	---	---	---	9.9 N	---	---
EMPC-HPCDF	---	---	118 N	---	83.6 N	---	---	2.2 N
EMPC-HXCDD	---	14.9 N	41.2 N	---	---	---	11.9 N	43.2 N
EMPC-HXCDF	49.2 N	---	117 N	41.6 N	50.3 N	---	---	11.8 NJ
EMPC-PECDD	---	---	11.3 N	---	---	---	---	8 N
EMPC-PECDF	322 N	96.6 N	1060 N	169 N	164 N	3.5 N	---	---
EMPC-TCDD	41.3 N	6.8 N	195 N	---	31.7 N	---	2.4 N	---
EMPC-TCDF	1550 N	371 N	4410 N	454 N	1120 N	1.8 N	---	15.5 N

## Notes:

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-- -: No EMPC result reported



## Groundwater EMPC Results

Constituent	RP-01-51 10/11/2000	RP-01-51 6/26/2001	RP-01-51 4/8/2002	RP-01-51 4/15/2004	RP-01-65 10/11/2000	RP-01-65 4/5/2002	RP-01-65 4/15/2004	RP-02-31 10/16/2000
Dioxins & Furans, Method 8290, pg/L								
EMPC-HPCDD	---	---	---	---	---	---	---	7.3 N
EMPC-HPCDF	---	---	2.1 N	---	---	---	---	3.6 N
EMPC-HXCDD	10.7 N	39.7 NJ	---	---	10.2 N	16.1 UJ	---	---
EMPC-HXCDF	---	48.6 NJ	8.9 UJ	1.2 U	---	---	6.7 U	---
EMPC-PECDD	---	---	1.6 N	---	---	---	---	---
EMPC-PECDF	2.4 N	---	4.6 N	---	---	11.6 UJ	3.5 U	3.5 N
EMPC-TCDD	1.8 N	---	1.4 N	---	---	3.4 UJ	---	---
EMPC-TCDF	---	---	2.4 N	---	---	---	---	13.2 N

## Notes:

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-- -: No EMPC result reported

## Groundwater EMPC Results

Constituent	RP-02-31 6/19/2001	RP-02-31 4/4/2002	RP-02-49 10/16/2000	RP-02-49 6/19/2001	RP-02-49 4/4/2002	RP-02-66 10/16/2000	RP-02-66 6/19/2001	RP-02-66 4/4/2002
Dioxins & Furans, Method 8290, pg/L								
EMPC-HPCDD	---	20.6 N	---	---	---	---	---	---
EMPC-HPCDF	---	17.2 NJ	1.8 N	---	---	---	---	---
EMPC-HXCDD	2.6 N	18.3 NJ	---	---	2.3 U	---	2.9 N	7.9 U
EMPC-HXCDF	3.4 N	27.9 NJ	---	---	3.8 U	---	---	18.3 U
EMPC-PECDD	---	4.5 N	---	---	---	---	---	---
EMPC-PECDF	---	20.8 NJ	---	---	4.7 U	0.66 N	---	---
EMPC-TCDD	5.2 N	---	---	22.1 NJ	---	0.68 N	33.7 NJ	---
EMPC-TCDF	---	19.1 NJ	---	8.9 NJ	---	4.3 N	6.3 NJ	3 U

## Notes:

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---: No EMPC result reported

## Groundwater EMPC Results

Constituent	RP-02-66 4/12/2004	RP-03-30R 10/12/2000	RP-03-30R 6/27/2001	RP-03-30R 4/19/2004	RP-03-52R 10/12/2000	RP-03-52R 4/10/2002	RP-04-16 10/4/2000	RP-04-16 7/3/2001
Dioxins & Furans, Method 8290, pg/L								
EMPC-HPCDD	---	---	---	---	---	---	---	---
EMPC-HPCDF	---	---	---	---	---	---	---	47.4 N
EMPC-HXCDD	---	6.5 N	---	---	82.1 N	6.9 N	924 N	3.7 N
EMPC-HXCDF	---	---	---	---	---	11.8 N	---	89 N
EMPC-PECDD	3.1 N	---	---	---	---	---	1000 N	33.5 N
EMPC-PECDF	---	---	2.9 N	---	---	---	108280 N	2960 N
EMPC-TCDD	---	2.3 N	---	50 N	---	6.2 N	49340 N	1760 N
EMPC-TCDF	3.5 U	---	2.5 N	---	7.2 N	---	247490 N	12130 NJ

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-- -: No EMPC result reported

## Groundwater EMPC Results

Constituent	RP-04-16 4/18/2002	RP-04-16 4/21/2004	RP-04-41 7/3/2001	RP-04-41 4/18/2002	RP-04-41 4/21/2004	RP-06-30 10/12/2000	RP-06-87 10/12/2000	RP-06-87 6/27/2001
Dioxins & Furans, Method 8290, pg/L								
EMPC-HPCDD	---	---	---	---	---	---	---	---
EMPC-HPCDF	---	11.9 N	---	---	21820 N	---	---	---
EMPC-HXCDD	7.1 N	---	7.6 N	6.4 N	4830 N	9.1 N	12.8 N	---
EMPC-HXCDF	---	28.3 N	113 NJ	80.6 N	30960000 N	---	2.1 N	---
EMPC-PECDD	13.8 N	---	32.1 NJ	---	11270 N	---	---	---
EMPC-PECDF	2110 N	1230 N	---	1960 N	624050000 N	---	---	---
EMPC-TCDD	1150 N	---	1690 N	1270 N	340700 N	---	2 N	1.5 N
EMPC-TCDF	7150 N	6380 N	7690 N	5620 N	445540 N	1.8 N	4.5 N	4.3 N

## Notes:

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UJ = not detected at or greater than the stated level which is an approximate value

-- -: No EMPC result reported

## Groundwater EMPC Results

Constituent	RP-06-87 4/10/2002	RP-07-119 5/3/2002	RP-07-30 5/3/2002	RP-07-55 5/3/2002	RP-07-84 5/3/2002	RP-07-84 4/13/2004	W-04-89 10/9/2000	W-04-89 6/26/2001
Dioxins & Furans, Method 8290, pg/L								
EMPC-HPCDD	---	---	17.1 N	6.2 N	---	5 N	---	13.9 N
EMPC-HPCDF	---	---	9.3 N	---	---	---	---	---
EMPC-HXCDD	---	5.9 N	8 N	10.1 N	8.8 N	---	19.3 N	11.2 N
EMPC-HXCDF	3.8 NJ	---	4.2 N	---	---	---	21.2 N	11.9 N
EMPC-PECDD	5.5 NJ	---	---	---	---	---	---	---
EMPC-PECDF	---	---	---	---	---	4.7 N	---	9.7 N
EMPC-TCDD	3.4 N	---	---	---	---	---	---	---
EMPC-TCDF	5.3 N	---	---	---	1.8 N	1.4 U	6.4 N	---

## Notes:

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UJ = not detected at or greater than the stated level which is an approximate value

-- -: No EMPC result reported

## Groundwater EMPC Results

Constituent	W-04-89 4/8/2002	W-04-I(49) 10/9/2000	W-06-B(67) 9/28/2000	W-06-D(49) 9/28/2000	W-06-S(27) 9/28/2000	W-09-116 4/20/2004	W-11-B(122) 6/21/2001	W-11-B(122) 4/9/2002
Dioxins & Furans, Method 8290, pg/L								
EMPC-HPCDD	6.2 N	---	---	---	---	---	2.9 N	---
EMPC-HPCDF	1.7 N	---	---	---	---	---	---	---
EMPC-HXCDD	1.8 U	3.7 N	---	---	---	---	---	---
EMPC-HXCDF	---	---	---	1.9 N	---	---	---	---
EMPC-PECDD	---	---	---	---	---	---	---	4.2 N
EMPC-PECDF	10.4 N	---	4.2 N	---	157 N	---	---	---
EMPC-TCDD	---	---	10.8 N	---	---	---	---	---
EMPC-TCDF	---	2.5 N	---	27.3 N	498 N	285 N	---	---

## Notes:

EMPC: Estimated Maximum Potential Concentration

N = presumptively identified result

NJ = presumptively identified and estimated result

U = not detected at or greater than the stated level

UJ = not detected at or greater than the stated level which is an approximate value

-- -: No EMPC result reported

## Groundwater EMPC Results

Constituent	W-11-B(122) 4/14/2004	W-11-D(91) 10/10/2000	W-11-D(91) 6/21/2001	W-11-D(91) 4/14/2004	W-11-I(60) 10/10/2000	W-11-I(60) 6/21/2001	W-11-I(60) 4/9/2002	W-11-S(21) 10/10/2000
Dioxins & Furans, Method 8290, pg/L								
EMPC-HPCDD	---	---	---	---	---	---	5.1 N	---
EMPC-HPCDF	---	---	---	1.1 N	---	143 N	2 N	---
EMPC-HXCDD	3.1 N	4.2 N	---	---	6.8 N	---	---	128 N
EMPC-HXCDF	4.9 N	---	---	---	4.9 N	---	1 N	161 N
EMPC-PECDD	1.9 N	---	---	---	---	---	---	12 N
EMPC-PECDF	6.4 N	---	---	0.84 N	---	---	---	168 N
EMPC-TCDD	---	---	---	---	3.5 N	---	1.4 N	35 N
EMPC-TCDF	---	---	31.3 N	152 N	15.7 N	---	---	279 N

## Notes:

EMPC: Estimated Maximum Potential Concentration

N = presumptively identified result

NJ = presumptively identified and estimated result

U = not detected at or greater than the stated level

UJ = not detected at or greater than the stated level which is an approximate value

-- -: No EMPC result reported

## Groundwater EMPC Results

Constituent	W-11-S(21) 6/21/2001	W-11-S(21) 4/9/2002	W-15-D(62) 9/29/2000	W-15-I(38) 9/29/2000	W-15-I(38) 6/20/2001	W-15-I(38) 4/11/2002	W-15-S(14) 6/22/2001	W-15-S(14) 4/11/2002
Dioxins & Furans, Method 8290, pg/L								
EMPC-HPCDD	7.1 N	1.5 N	---	---	---	---	---	---
EMPC-HPCDF	---	---	---	---	---	---	---	---
EMPC-HXCDD	---	---	---	---	0.52 N	---	3.1 N	---
EMPC-HXCDF	2.5 N	---	11 N	1.6 N	---	19.7 NJ	8.6 N	---
EMPC-PECDD	3.8 N	---	31.7 N	---	---	---	---	1.3 N
EMPC-PECDF	22.2 N	---	---	---	---	---	---	---
EMPC-TCDD	---	3.4 N	---	---	---	---	1.8 N	---
EMPC-TCDF	64.5 N	---	---	---	8.3 N	---	---	---

## Notes:

EMPC: Estimated Maximum Potential Concentration

N = presumptively identified result

NJ = presumptively identified and estimated result

U = not detected at or greater than the stated level

UJ = not detected at or greater than the stated level which is an approximate value

-- -: No EMPC result reported



## Groundwater EMPC Results

Constituent	W-16-31 10/17/2000	W-16-31 6/22/2001	W-16-31 4/8/2002	W-16-D(85) 10/17/2000	W-16-I(50) 10/17/2000	W-16-I(50) 6/22/2001	W-19-D(68) 10/16/2000	W-19-I(49) 10/16/2000
Dioxins & Furans, Method 8290, pg/L								
EMPC-HPCDD	---	---	---	---	---	---	---	---
EMPC-HPCDF	---	---	3.5 U	---	---	---	10.5 N	---
EMPC-HXCDD	5.5 N	1.8 N	2.2 U	---	7.6 N	---	4.2 N	---
EMPC-HXCDF	---	---	---	0.56 N	1.3 N	1 N	---	2.5 N
EMPC-PECDD	0.82 N	---	---	---	---	1.6 N	---	---
EMPC-PECDF	---	---	---	0.77 N	---	---	---	---
EMPC-TCDD	---	---	---	---	---	---	9.5 N	---
EMPC-TCDF	2 N	---	---	2.4 N	18.9 N	1.4 N	20.6 N	9.6 N

## Notes:

EMPC: Estimated Maximum Potential Concentration

N = presumptively identified result

NJ = presumptively identified and estimated result

U = not detected at or greater than the stated level

UJ = not detected at or greater than the stated level which is an approximate value

-- -: No EMPC result reported